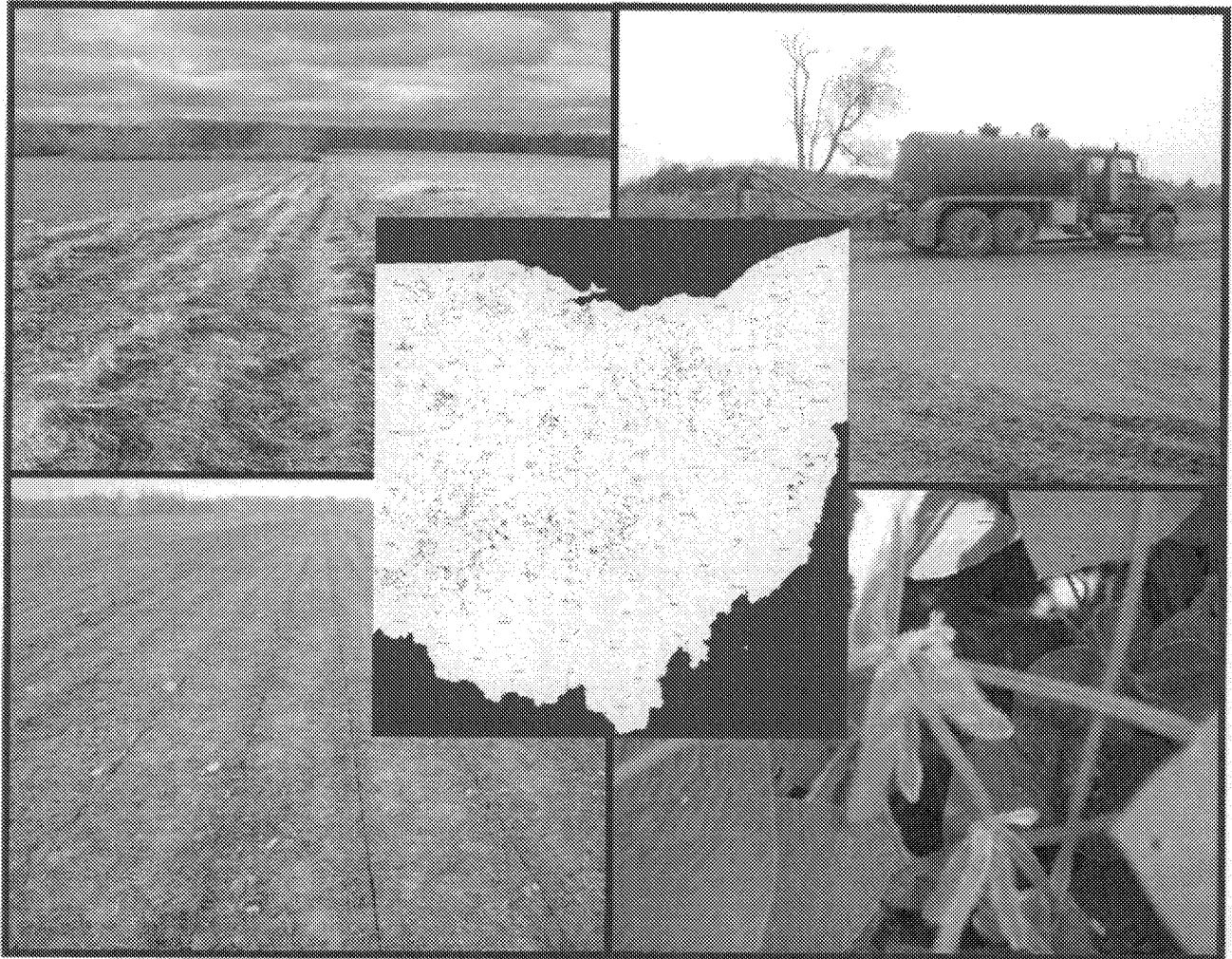


Application for Authorization: Class B Biosolids Beneficial Use Sites



THURSTON
229.88 ac

Township Road 165

Field Entrance FROM
ST. RT. 229

229

229



■ Farm - Name
Ashley Farm (229.88 ac)

WILLIAM THURSTON
City: Morrow, OH Twp: Peru
Ag Leader Technology SMS Advanced



Division of Surface Water
Application for Authorization: Class B Beneficial Use Sites

Biosolids Treatment Works Information

Treatment works name: <i>RINGLER ENERGY, LLC</i>		
Ohio NPDES permit #: <i>41N00204*AD</i>	County: <i>NORROW</i>	
Mailing address: <i>2279 C. Rd. 156</i>		
City: <i>CARDINGTON</i>	State: <i>OH</i>	Zip: <i>43035</i>
Operator of record: <i>ALEX RINGLER</i>		
Telephone number: <i>419-253-5300</i>		
Email address (if available): <i>ALEX@RENERGY.COM</i>		

Certification Statement

1. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.
2. I have read and understand Chapter 3745-40 of the Ohio Administrative Code (OAC) and I agree to beneficially use biosolids in accordance with all applicable beneficial use requirements and restrictions established in Chapter 3745-40 of the Ohio Administrative Code.
3. I agree to only beneficially use biosolids that have satisfied a pathogen reduction alternative and a vector attraction reduction option and have metals concentration below the pollutant ceiling concentrations as established in Chapter 3745-40 of the Ohio Administrative Code.
4. I agree to maintain all applicable records established in Chapter 3745-40 of the Ohio Administrative Code.


Signature

2/12/16
Date

This form shall be signed by the operator of record for the treatment works.

Division of Surface Water
Application for Authorization: Class B Beneficial Use Sites

Owner Consent for Beneficial Use

Beneficial use site owner: <i>SHADY HAVEN FARMS LLC</i> <i>Shady Haven Farms LLC</i>		
Mailing address: <i>6331 McElroy Rd.</i>		
City: <i>DELAWARE</i>	State: <i>OH</i>	Zip: <i>43015</i>
Telephone number: <i>740-524-2337</i>		
Email address (if available):		

Certification Statement

1. I agree to allow biosolids generated by the treatment plant identified on Form BUA-1 to be beneficially used on my property at agronomic rates.
2. I agree to allow federal, state and local regulatory staff access to the beneficial use site for the purposes of inspecting and authorizing the beneficial use site, beneficially using biosolids, and collecting and analyzing samples from the beneficial use site. I reserve the right to ask the above parties for proper identification at any time.
3. I certify that I am holder of legal title to the property described on application form BUA-4, or am authorized by the holder to give consent for the land application of biosolids, and that there are no restrictions to the granting of consent under this form.

William Thurston owner member 2, 12, 11
Signature Date

For purposes of this form, "beneficial use site owner" means the person who owns the legal rights to the proposed beneficial use site. In the event the owner of the beneficial use site changes, Form BUA-2 must be revised and resubmitted to Ohio EPA.

Beneficial Use Site Operator Consent for Beneficial Use

ED 014244 00000114-00005

Division of Surface Water
Application for Authorization: Class B Beneficial Use Sites

Beneficial User Information

Beneficial user: <u>RINGLER ENERGY, LLC</u>		
Contact person: <u>ALEX RINGLER</u>		
Mailing address: <u>461 ST RT 61</u>		
City: <u>MAKENCO</u>	State: <u>OH</u>	Zip: <u>43334</u>
Telephone number: <u>419-253-5300</u>		
Email address (if available): <u>ALEX@RENERGY.COM</u>		

Certification Statement

I agree to be responsible for complying with all applicable beneficial use requirements established in Chapter 3745-40 of the Ohio Administrative Code.

Signature _____

2/12/16
Date

For purposes of this form, the "beneficial user" means the person who sprays or spreads Class B biosolids onto the surface of the beneficial use site, injects below the surface of the beneficial use site, or incorporates into the soil of the beneficial use site, for the purpose of providing an agronomic benefit.

Division of Surface Water
Application for Authorization: Class B Beneficial Use Sites

Beneficial Use Site Information

Ohio EPA Site I.D. (Ohio EPA Use Only)

Field site I.D.: 250-1																	
Beneficial use site location: Ashley Farm																	
County: Morrow		Township: Peru															
Latitude: 40° 24' 34.02" N		Longitude: 82° 53' 09.76" W															
Total acreage proposed for beneficial use: 24.59																	
Type of beneficial use to be performed:		Ground slope percent:															
Surface application <input checked="" type="checkbox"/>		Less than 15% <input checked="" type="checkbox"/> 15% to 19.9% <input type="checkbox"/>															
Injection or immediate incorporation <input checked="" type="checkbox"/>		Greater than 20% <input type="checkbox"/>															
Soil pH (s.u.): 5.2		Soil phosphorus (ppm): 13															
Bedrock depth (feet): avg. >3ft		Bray Kurtz P1 <input type="checkbox"/> Mehlich 3 <input checked="" type="checkbox"/>															
Type of crops to be grown:																	
<table border="1" style="width: 100%;"><thead><tr><th style="width: 60%;">Crop Type</th><th style="width: 40%;">Expected Yield</th></tr></thead><tbody><tr><td>Corn</td><td>185</td></tr><tr><td>Soybeans</td><td>50</td></tr><tr><td>Wheat</td><td>90</td></tr><tr><td>Pasture</td><td></td></tr><tr><td>Hay</td><td></td></tr><tr><td>Other:</td><td></td></tr></tbody></table>				Crop Type	Expected Yield	Corn	185	Soybeans	50	Wheat	90	Pasture		Hay		Other:	
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Pasture																	
Hay																	
Other:																	
Soil Types:																	
Soil Unit Symbol	Soil Unit Name	Hydrologic Soil Group	Flooding Frequency Class														
Ble1A1	Blount silt loam, end moraine, 0 to 2 percent slopes	D	None														
Ble1B1	Blount silt loam, end moraine, 2 to 4 percent slopes	D	None														
Gwe5B2	Glynwood clay loam, end moraine, 2 to 6 percent slopes, eroded	D	None														
Pm	Pewamo silty clay loam, 0 to 1 percent slopes	C/D	None														

Division of Surface Water
Application for Authorization: Class B Beneficial Use Sites

Applicable isolation distances:

Type of Isolation Distance			
Surface waters of the state	<input checked="" type="checkbox"/>	Sinkhole/UIC class V drainage	<input type="checkbox"/>
Occupied building	<input checked="" type="checkbox"/>	Private potable water source	<input type="checkbox"/>
Medical care facility	<input type="checkbox"/>		

Are any endangered species or endangered species habitats located on the beneficial use site?

☐ Yes ☒ No

If "Yes" is marked, list the types of endangered species or endangered species habitat:

--

Have biosolids been beneficially used on the site since July 20, 1993?

☐ Yes ☒ No

If "Yes" is marked, list the biosolids generators and years beneficial use occurred:

Generator	NPDES permit No.	Year of Beneficial Use

The application must also include all of the following.

- ☒ A soil map of the proposed beneficial use site.
- ☒ A frequency flood class map of the proposed beneficial use site.
- ☒ An aerial map of the proposed beneficial use site that clearly identifies the entrance of the beneficial use site from the nearest road and all applicable isolation distances as established in Chapter 3745-40 of the Ohio Administrative Code.
- ☒ A vicinity road map at or near the township level that clearly identifies the proposed beneficial use site with all roads labeled.
- ☒ A copy of the most recent soil test results identified in this form.

Division of Surface Water
Application for Authorization: Class B Beneficial Use Sites

Beneficial Use Site Information

Ohio EPA Site I.D. (Ohio EPA Use Only)

Field site I.D.: 250-2																	
Beneficial use site location: Ashley Farm																	
County: Morrow		Township: Peru															
Latitude: 40° 24' 34.52" N		Longitude: 82° 53' 13.11" W															
Total acreage proposed for beneficial use: 24.16																	
Type of beneficial use to be performed:		Ground slope percent:															
Surface application <input checked="" type="checkbox"/>		Less than 15% <input checked="" type="checkbox"/> 15% to 19.9% <input type="checkbox"/>															
Injection or immediate incorporation <input checked="" type="checkbox"/>		Greater than 20% <input type="checkbox"/>															
Soil pH (s.u.): 5.7		Soil phosphorus (ppm): 17															
Bedrock depth (feet): avg. >3ft		Bray Kurtz P1 <input type="checkbox"/> Mehlich 3 <input checked="" type="checkbox"/>															
Type of crops to be grown:																	
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Soybeans	50																
Wheat	90																
Pasture																	
Hay																	
Other:																	
Soil Types:																	
Soil Unit Symbol	Soil Unit Name	Hydrologic Soil Group	Flooding Frequency Class														
Ble1A1	Blount silt loam, end moraine, 0 to 2 percent slopes	D	None														
Ble1B1	Blount silt loam, end moraine, 2 to 4 percent slopes	D	None														
Gwe5B2	Glynwood clay loam, end moraine, 2 to 6 percent slopes, eroded	D	None														
Pm	Pewamo silty clay loam, 0 to 1 percent slopes	C/D	None														

Division of Surface Water
Application for Authorization: Class B Beneficial Use Sites

Applicable isolation distances:

Type of Isolation Distance			
Surface waters of the state	<input checked="" type="checkbox"/>	Sinkhole/UIC class V drainage	<input type="checkbox"/>
Occupied building	<input checked="" type="checkbox"/>	Private potable water source	<input type="checkbox"/>
Medical care facility	<input type="checkbox"/>		

Are any endangered species or endangered species habitats located on the beneficial use site?

☐ Yes ☒ No

If "Yes" is marked, list the types of endangered species or endangered species habitat:

--

Have biosolids been beneficially used on the site since July 20, 1993?

☐ Yes ☒ No

If "Yes" is marked, list the biosolids generators and years beneficial use occurred:

Generator	NPDES permit No.	Year of Beneficial Use

The application must also include all of the following.

- ☒ A soil map of the proposed beneficial use site.
- ☒ A frequency flood class map of the proposed beneficial use site.
- ☒ An aerial map of the proposed beneficial use site that clearly identifies the entrance of the beneficial use site from the nearest road and all applicable isolation distances as established in Chapter 3745-40 of the Ohio Administrative Code.
- ☒ A vicinity road map at or near the township level that clearly identifies the proposed beneficial use site with all roads labeled.
- ☒ A copy of the most recent soil test results identified in this form.

Division of Surface Water
Application for Authorization: Class B Beneficial Use Sites

Beneficial Use Site Information

Ohio EPA Site I.D. (Ohio EPA Use Only)

Field site I.D.: 250-3																	
Beneficial use site location: Ashley Farm																	
County: Morrow		Township: Peru															
Latitude: 40° 24' 34.96" N		Longitude: 82° 53' 17.00" W															
Total acreage proposed for beneficial use: 24.67																	
Type of beneficial use to be performed:		Ground slope percent:															
Surface application <input checked="" type="checkbox"/>		Less than 15% <input checked="" type="checkbox"/> 15% to 19.9% <input type="checkbox"/>															
Injection or immediate incorporation <input checked="" type="checkbox"/>		Greater than 20% <input type="checkbox"/>															
Soil pH (s.u.): 5.0		Soil phosphorus (ppm): 21															
Bedrock depth (feet): avg. >3ft		Bray Kurtz P1 <input type="checkbox"/> Mehlich 3 <input checked="" type="checkbox"/>															
Type of crops to be grown:																	
<table border="1" style="width: 100%;"><thead><tr><th>Crop Type</th><th>Expected Yield</th></tr></thead><tbody><tr><td>Corn</td><td>185</td></tr><tr><td>Soybeans</td><td>50</td></tr><tr><td>Wheat</td><td>90</td></tr><tr><td>Pasture</td><td></td></tr><tr><td>Hay</td><td></td></tr><tr><td>Other:</td><td></td></tr></tbody></table>				Crop Type	Expected Yield	Corn	185	Soybeans	50	Wheat	90	Pasture		Hay		Other:	
Crop Type	Expected Yield																
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Wheat	90																
Pasture																	
Hay																	
Other:																	
Soil Types:																	
Soil Unit Symbol	Soil Unit Name	Hydrologic Soil Group	Flooding Frequency Class														
Ble1A1	Blount silt loam, end moraine, 0 to 2 percent slopes	D	None														
Ble1B1	Blount silt loam, end moraine, 2 to 4 percent slopes	D	None														
Gwe5B2	Glynwood clay loam, end moraine, 2 to 6 percent slopes, eroded	D	None														
Pm	Pewamo silty clay loam, 0 to 1 percent slopes	C/D	None														

Division of Surface Water
Application for Authorization: Class B Beneficial Use Sites

Applicable isolation distances:

Type of Isolation Distance			
Surface waters of the state	<input checked="" type="checkbox"/>	Sinkhole/UIC class V drainage	<input type="checkbox"/>
Occupied building	<input checked="" type="checkbox"/>	Private potable water source	<input type="checkbox"/>
Medical care facility	<input type="checkbox"/>		

Are any endangered species or endangered species habitats located on the beneficial use site?

☐ Yes ☒ No

If "Yes" is marked, list the types of endangered species or endangered species habitat:

--	--

Have biosolids been beneficially used on the site since July 20, 1993?

☐ Yes ☒ No

If "Yes" is marked, list the biosolids generators and years beneficial use occurred:

Generator	NPDES permit No.	Year of Beneficial Use

The application must also include all of the following.

- ☒ A soil map of the proposed beneficial use site.
- ☒ A frequency flood class map of the proposed beneficial use site.
- ☒ An aerial map of the proposed beneficial use site that clearly identifies the entrance of the beneficial use site from the nearest road and all applicable isolation distances as established in Chapter 3745-40 of the Ohio Administrative Code.
- ☒ A vicinity road map at or near the township level that clearly identifies the proposed beneficial use site with all roads labeled.
- ☒ A copy of the most recent soil test results identified in this form.

Division of Surface Water
Application for Authorization: Class B Beneficial Use Sites

Beneficial Use Site Information

Ohio EPA Site I.D. (Ohio EPA Use Only)

Field site I.D.: 250-4																	
Beneficial use site location: Ashley Farm																	
County: Morrow		Township: Peru															
Latitude: 40° 24' 35.33" N		Longitude: 82° 53' 22.60" W															
Total acreage proposed for beneficial use: 24.71																	
Type of beneficial use to be performed:		Ground slope percent:															
Surface application <input checked="" type="checkbox"/>		Less than 15% <input checked="" type="checkbox"/> 15% to 19.9% <input type="checkbox"/>															
Injection or immediate incorporation <input checked="" type="checkbox"/>		Greater than 20% <input type="checkbox"/>															
Soil pH (s.u.): 5.4		Soil phosphorus (ppm): 8															
Bedrock depth (feet): avg. >3ft		Bray Kurtz P1 <input type="checkbox"/> Mehlich 3 <input checked="" type="checkbox"/>															
Type of crops to be grown:																	
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Soil Types:																	
Soil Unit Symbol	Soil Unit Name	Hydrologic Soil Group	Flooding Frequency Class														
Ble1A1	Blount silt loam, end moraine, 0 to 2 percent slopes	D	None														
Ble1B1	Blount silt loam, end moraine, 2 to 4 percent slopes	D	None														
Gwe5B2	Glynwood clay loam, end moraine, 2 to 6 percent slopes, eroded	D	None														
Pm	Pewamo silty clay loam, 0 to 1 percent slopes	C/D	None														

Division of Surface Water
Application for Authorization: Class B Beneficial Use Sites

Applicable isolation distances:

Type of Isolation Distance			
Surface waters of the state	<input checked="" type="checkbox"/>	Sinkhole/UIC class V drainage	<input type="checkbox"/>
Occupied building	<input checked="" type="checkbox"/>	Private potable water source	<input type="checkbox"/>
Medical care facility	<input type="checkbox"/>		

Are any endangered species or endangered species habitats located on the beneficial use site?

☐ Yes ☒ No

If "Yes" is marked, list the types of endangered species or endangered species habitat:

--

Have biosolids been beneficially used on the site since July 20, 1993?

☐ Yes ☒ No

If "Yes" is marked, list the biosolids generators and years beneficial use occurred:

Generator	NPDES permit No.	Year of Beneficial Use

The application must also include all of the following.

- ☒ A soil map of the proposed beneficial use site.
- ☒ A frequency flood class map of the proposed beneficial use site.
- ☒ An aerial map of the proposed beneficial use site that clearly identifies the entrance of the beneficial use site from the nearest road and all applicable isolation distances as established in Chapter 3745-40 of the Ohio Administrative Code.
- ☒ A vicinity road map at or near the township level that clearly identifies the proposed beneficial use site with all roads labeled.
- ☒ A copy of the most recent soil test results identified in this form.

Division of Surface Water
Application for Authorization: Class B Beneficial Use Sites

Beneficial Use Site Information

Ohio EPA Site I.D. (Ohio EPA Use Only)

Field site I.D.: 250-5																											
Beneficial use site location: Ashley Farm																											
County: Morrow		Township: Peru																									
Latitude: 40° 24' 35.71" N		Longitude: 82° 53' 28.99" W																									
Total acreage proposed for beneficial use: 20.31																											
Type of beneficial use to be performed:		Ground slope percent:																									
Surface application <input checked="" type="checkbox"/>		Less than 15% <input checked="" type="checkbox"/> 15% to 19.9% <input type="checkbox"/>																									
Injection or immediate incorporation <input checked="" type="checkbox"/>		Greater than 20% <input type="checkbox"/>																									
Soil pH (s.u.): 4.6		Soil phosphorus (ppm): 16																									
Bedrock depth (feet): avg. >3ft		Bray Kurtz P1 <input type="checkbox"/> Mehlich 3 <input checked="" type="checkbox"/>																									
Type of crops to be grown:																											
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Soil Unit Symbol	Soil Unit Name	Hydrologic Soil Group	Flooding Frequency Class																								
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Division of Surface Water
Application for Authorization: Class B Beneficial Use Sites

Applicable isolation distances:

Type of Isolation Distance			
Surface waters of the state	<input checked="" type="checkbox"/>	Sinkhole/UIC class V drainage	<input type="checkbox"/>
Occupied building	<input checked="" type="checkbox"/>	Private potable water source	<input type="checkbox"/>
Medical care facility	<input type="checkbox"/>		

Are any endangered species or endangered species habitats located on the beneficial use site?

☐ Yes ☒ No

If "Yes" is marked, list the types of endangered species or endangered species habitat:

--	--

Have biosolids been beneficially used on the site since July 20, 1993?

☐ Yes ☒ No

If "Yes" is marked, list the biosolids generators and years beneficial use occurred:

Generator	NPDES permit No.	Year of Beneficial Use

The application must also include all of the following.

- ☒ A soil map of the proposed beneficial use site.
- ☒ A frequency flood class map of the proposed beneficial use site.
- ☒ An aerial map of the proposed beneficial use site that clearly identifies the entrance of the beneficial use site from the nearest road and all applicable isolation distances as established in Chapter 3745-40 of the Ohio Administrative Code.
- ☒ A vicinity road map at or near the township level that clearly identifies the proposed beneficial use site with all roads labeled.
- ☒ A copy of the most recent soil test results identified in this form.

Division of Surface Water
Application for Authorization: Class B Beneficial Use Sites

Beneficial Use Site Information

Ohio EPA Site I.D. (Ohio EPA Use Only)

Field site I.D.: 250-6																	
Beneficial use site location: Ashley Farm																	
County: Morrow		Township: Peru															
Latitude: 40° 24' 35.75" N		Longitude: 82° 53' 32.91" W															
Total acreage proposed for beneficial use: 20.99																	
Type of beneficial use to be performed:		Ground slope percent:															
Surface application <input checked="" type="checkbox"/>		Less than 15% <input checked="" type="checkbox"/> 15% to 19.9% <input type="checkbox"/>															
Injection or immediate incorporation <input checked="" type="checkbox"/>		Greater than 20% <input type="checkbox"/>															
Soil pH (s.u.): 4.7		Soil phosphorus (ppm): 17															
Bedrock depth (feet): avg. >3ft		Bray Kurtz P1 <input type="checkbox"/> Mehlich 3 <input checked="" type="checkbox"/>															
Type of crops to be grown:																	
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Gwe5B2	Glynwood clay loam, end moraine, 2 to 6 percent slopes, eroded	D	None														
Pm	Pewamo silty clay loam, 0 to 1 percent slopes	C/D	None														

Division of Surface Water
Application for Authorization: Class B Beneficial Use Sites

Applicable isolation distances:

Type of Isolation Distance			
Surface waters of the state	<input checked="" type="checkbox"/>	Sinkhole/UIC class V drainage	<input type="checkbox"/>
Occupied building	<input checked="" type="checkbox"/>	Private potable water source	<input type="checkbox"/>
Medical care facility	<input type="checkbox"/>		

Are any endangered species or endangered species habitats located on the beneficial use site?

☐ Yes ☒ No

If "Yes" is marked, list the types of endangered species or endangered species habitat:

--

Have biosolids been beneficially used on the site since July 20, 1993?

☐ Yes ☒ No

If "Yes" is marked, list the biosolids generators and years beneficial use occurred:

Generator	NPDES permit No.	Year of Beneficial Use

The application must also include all of the following.

- ☒ A soil map of the proposed beneficial use site.
- ☒ A frequency flood class map of the proposed beneficial use site.
- ☒ An aerial map of the proposed beneficial use site that clearly identifies the entrance of the beneficial use site from the nearest road and all applicable isolation distances as established in Chapter 3745-40 of the Ohio Administrative Code.
- ☒ A vicinity road map at or near the township level that clearly identifies the proposed beneficial use site with all roads labeled.
- ☒ A copy of the most recent soil test results identified in this form.

Division of Surface Water
Application for Authorization: Class B Beneficial Use Sites

Beneficial Use Site Information

Ohio EPA Site I.D. (Ohio EPA Use Only)

Field site I.D.: 250-7			
Beneficial use site location: Ashley Farm			
County: Morrow		Township: Peru	
Latitude: 40° 24' 35.92" N		Longitude: 82° 53' 36.37" W	
Total acreage proposed for beneficial use: 20.69			
Type of beneficial use to be performed:		Ground slope percent:	
Surface application <input checked="" type="checkbox"/>		Less than 15% <input checked="" type="checkbox"/> 15% to 19.9% <input type="checkbox"/>	
Injection or immediate incorporation <input checked="" type="checkbox"/>		Greater than 20% <input type="checkbox"/>	
Soil pH (s.u.): 5.0		Soil phosphorus (ppm): 19	
Bedrock depth (feet): avg. >3ft		Bray Kurtz P1 <input type="checkbox"/> Mehlich 3 <input checked="" type="checkbox"/>	
Type of crops to be grown:			
		Crop Type	Expected Yield
		Corn	185
		Soybeans	50
		Wheat	90
		Pasture	
		Hay	
		Other:	
Soil Types:			
Soil Unit Symbol	Soil Unit Name	Hydrologic Soil Group	Flooding Frequency Class
Ble1A1	Blount silt loam, end moraine, 0 to 2 percent slopes	D	None
Ble1B1	Blount silt loam, end moraine, 2 to 4 percent slopes	D	None
Gwe5B2	Glynwood clay loam, end moraine, 2 to 6 percent slopes, eroded	D	None
Gwg5C2	Glynwood clay loam, ground moraine, 6 to 12 percent slopes, eroded	D	None
Pm	Pewamo silty clay loam, 0 to 1 percent slopes	C/D	None

Division of Surface Water
Application for Authorization: Class B Beneficial Use Sites

Applicable isolation distances:

Type of Isolation Distance			
Surface waters of the state	<input checked="" type="checkbox"/>	Sinkhole/UIC class V drainage	<input type="checkbox"/>
Occupied building	<input checked="" type="checkbox"/>	Private potable water source	<input type="checkbox"/>
Medical care facility	<input type="checkbox"/>		

Are any endangered species or endangered species habitats located on the beneficial use site?

☐ Yes ☒ No

If "Yes" is marked, list the types of endangered species or endangered species habitat:

--	--

Have biosolids been beneficially used on the site since July 20, 1993?

☐ Yes ☒ No

If "Yes" is marked, list the biosolids generators and years beneficial use occurred:

Generator	NPDES permit No.	Year of Beneficial Use

The application must also include all of the following.

- ☒ A soil map of the proposed beneficial use site.
- ☒ A frequency flood class map of the proposed beneficial use site.
- ☒ An aerial map of the proposed beneficial use site that clearly identifies the entrance of the beneficial use site from the nearest road and all applicable isolation distances as established in Chapter 3745-40 of the Ohio Administrative Code.
- ☒ A vicinity road map at or near the township level that clearly identifies the proposed beneficial use site with all roads labeled.
- ☒ A copy of the most recent soil test results identified in this form.

Division of Surface Water
Application for Authorization: Class B Beneficial Use Sites

Beneficial Use Site Information

Ohio EPA Site I.D. (Ohio EPA Use Only)

Field site I.D.: 250-8																	
Beneficial use site location: Ashley Farm																	
County: Morrow		Township: Peru															
Latitude: 40° 24' 36.18" N		Longitude: 82° 53' 38.41" W															
Total acreage proposed for beneficial use: 20.43																	
Type of beneficial use to be performed:		Ground slope percent:															
Surface application <input checked="" type="checkbox"/>		Less than 15% <input checked="" type="checkbox"/> 15% to 19.9% <input type="checkbox"/>															
Injection or immediate incorporation <input checked="" type="checkbox"/>		Greater than 20% <input type="checkbox"/>															
Soil pH (s.u.): 4.8		Soil phosphorus (ppm): 13															
Bedrock depth (feet): avg. >3ft		Bray Kurtz P1 <input type="checkbox"/> Mehlich 3 <input checked="" type="checkbox"/>															
Type of crops to be grown:																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Crop Type</th> <th style="text-align: center;">Expected Yield</th> </tr> </thead> <tbody> <tr> <td>Corn</td> <td style="text-align: center;">185</td> </tr> <tr> <td>Soybeans</td> <td style="text-align: center;">50</td> </tr> <tr> <td>Wheat</td> <td style="text-align: center;">90</td> </tr> <tr> <td>Pasture</td> <td></td> </tr> <tr> <td>Hay</td> <td></td> </tr> <tr> <td>Other:</td> <td></td> </tr> </tbody> </table>				Crop Type	Expected Yield	Corn	185	Soybeans	50	Wheat	90	Pasture		Hay		Other:	
Crop Type	Expected Yield																
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Soybeans	50																
Wheat	90																
Pasture																	
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Soil Types:																	
Soil Unit Symbol	Soil Unit Name	Hydrologic Soil Group	Flooding Frequency Class														
Ble1A1	Blount silt loam, end moraine, 0 to 2 percent slopes	D	None														
Ble1B1	Blount silt loam, end moraine, 2 to 4 percent slopes	D	None														
Gwe5B2	Glynwood clay loam, end moraine, 2 to 6 percent slopes, eroded	D	None														
Gwg5C2	Glynwood clay loam, ground moraine, 6 to 12 percent slopes, eroded	D	None														
Pm	Pewamo silty clay loam, 0 to 1 percent slopes	C/D	None														

Division of Surface Water
Application for Authorization: Class B Beneficial Use Sites

Applicable isolation distances:

Type of Isolation Distance			
Surface waters of the state	<input checked="" type="checkbox"/>	Sinkhole/UIC class V drainage	<input type="checkbox"/>
Occupied building	<input checked="" type="checkbox"/>	Private potable water source	<input type="checkbox"/>
Medical care facility	<input type="checkbox"/>		

Are any endangered species or endangered species habitats located on the beneficial use site?

☐ Yes ☒ No

If "Yes" is marked, list the types of endangered species or endangered species habitat:

--	--

Have biosolids been beneficially used on the site since July 20, 1993?

☐ Yes ☒ No

If "Yes" is marked, list the biosolids generators and years beneficial use occurred:

Generator	NPDES permit No.	Year of Beneficial Use

The application must also include all of the following.

- ☒ A soil map of the proposed beneficial use site.
- ☒ A frequency flood class map of the proposed beneficial use site.
- ☒ An aerial map of the proposed beneficial use site that clearly identifies the entrance of the beneficial use site from the nearest road and all applicable isolation distances as established in Chapter 3745-40 of the Ohio Administrative Code.
- ☒ A vicinity road map at or near the township level that clearly identifies the proposed beneficial use site with all roads labeled.
- ☒ A copy of the most recent soil test results identified in this form.

Division of Surface Water
Application for Authorization: Class B Beneficial Use Sites

Beneficial Use Site Information

Ohio EPA Site I.D. (Ohio EPA Use Only)

Field site I.D.: 250-9																											
Beneficial use site location: Ashley Farm																											
County: Morrow		Township: Peru																									
Latitude: 40° 24' 36.20" N		Longitude: 82° 53' 41.53" W																									
Total acreage proposed for beneficial use: 14.46																											
Type of beneficial use to be performed:		Ground slope percent:																									
Surface application <input checked="" type="checkbox"/>		Less than 15% <input checked="" type="checkbox"/> 15% to 19.9% <input type="checkbox"/>																									
Injection or immediate incorporation <input checked="" type="checkbox"/>		Greater than 20% <input type="checkbox"/>																									
Soil pH (s.u.): 4.6		Soil phosphorus (ppm): <u>7</u>																									
Bedrock depth (feet): avg. >3ft		Bray Kurtz P1 <input type="checkbox"/> Mehlich 3 <input checked="" type="checkbox"/>																									
Type of crops to be grown:																											
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Soil Unit Symbol	Soil Unit Name	Hydrologic Soil Group	Flooding Frequency Class																								
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Division of Surface Water
Application for Authorization: Class B Beneficial Use Sites

Applicable isolation distances:

Type of Isolation Distance			
Surface waters of the state	<input checked="" type="checkbox"/>	Sinkhole/UIC class V drainage	<input type="checkbox"/>
Occupied building	<input checked="" type="checkbox"/>	Private potable water source	<input type="checkbox"/>
Medical care facility	<input type="checkbox"/>		

Are any endangered species or endangered species habitats located on the beneficial use site?

☐ Yes ☒ No

If "Yes" is marked, list the types of endangered species or endangered species habitat:

--	--

Have biosolids been beneficially used on the site since July 20, 1993?

☐ Yes ☒ No

If "Yes" is marked, list the biosolids generators and years beneficial use occurred:

Generator	NPDES permit No.	Year of Beneficial Use

The application must also include all of the following.

- ☒ A soil map of the proposed beneficial use site.
- ☒ A frequency flood class map of the proposed beneficial use site.
- ☒ An aerial map of the proposed beneficial use site that clearly identifies the entrance of the beneficial use site from the nearest road and all applicable isolation distances as established in Chapter 3745-40 of the Ohio Administrative Code.
- ☒ A vicinity road map at or near the township level that clearly identifies the proposed beneficial use site with all roads labeled.
- ☒ A copy of the most recent soil test results identified in this form.

Division of Surface Water
Application for Authorization: Class B Beneficial Use Sites

Beneficial Use Site Information

Ohio EPA Site I.D. (Ohio EPA Use Only)

Field site I.D.: 250-10																															
Beneficial use site location: Ashley Farm																															
County: Morrow		Township: Peru																													
Latitude: 40° 24' 32.24" N		Longitude: 82° 53' 45.74" W																													
Total acreage proposed for beneficial use: 11.45																															
Type of beneficial use to be performed:		Ground slope percent:																													
Surface application <input checked="" type="checkbox"/>		Less than 15% <input checked="" type="checkbox"/> 15% to 19.9% <input type="checkbox"/>																													
Injection or immediate incorporation <input checked="" type="checkbox"/>		Greater than 20% <input type="checkbox"/>																													
Soil pH (s.u.): 5.9		Soil phosphorus (ppm): 6																													
Bedrock depth (feet): avg. >3ft		Bray Kurtz P1 <input type="checkbox"/> Mehlich 3 <input checked="" type="checkbox"/>																													
Type of crops to be grown:																															
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Division of Surface Water
Application for Authorization: Class B Beneficial Use Sites

Applicable isolation distances:

Type of Isolation Distance			
Surface waters of the state	<input checked="" type="checkbox"/>	Sinkhole/UIC class V drainage	<input type="checkbox"/>
Occupied building	<input checked="" type="checkbox"/>	Private potable water source	<input type="checkbox"/>
Medical care facility	<input type="checkbox"/>		

Are any endangered species or endangered species habitats located on the beneficial use site?

☐ Yes ☒ No

If "Yes" is marked, list the types of endangered species or endangered species habitat:

--	--

Have biosolids been beneficially used on the site since July 20, 1993?

☐ Yes ☒ No

If "Yes" is marked, list the biosolids generators and years beneficial use occurred:

Generator	NPDES permit No.	Year of Beneficial Use

The application must also include all of the following.

- ☒ A soil map of the proposed beneficial use site.
- ☒ A frequency flood class map of the proposed beneficial use site.
- ☒ An aerial map of the proposed beneficial use site that clearly identifies the entrance of the beneficial use site from the nearest road and all applicable isolation distances as established in Chapter 3745-40 of the Ohio Administrative Code.
- ☒ A vicinity road map at or near the township level that clearly identifies the proposed beneficial use site with all roads labeled.
- ☒ A copy of the most recent soil test results identified in this form.

Division of Surface Water
Application for Authorization: Class B Beneficial Use Sites

Beneficial Use Site Information

Ohio EPA Site I.D. (Ohio EPA Use Only)

Field site I.D.: 250-11																															
Beneficial use site location: Ashley Farm																															
County: Morrow		Township: Peru																													
Latitude: 40° 24' 32.30" N		Longitude: 82° 53' 50.20" W																													
Total acreage proposed for beneficial use: 12.53																															
Type of beneficial use to be performed:		Ground slope percent:																													
Surface application <input checked="" type="checkbox"/>		Less than 15% <input checked="" type="checkbox"/> 15% to 19.9% <input type="checkbox"/>																													
Injection or immediate incorporation <input checked="" type="checkbox"/>		Greater than 20% <input type="checkbox"/>																													
Soil pH (s.u.): 6.5		Soil phosphorus (ppm): 12																													
Bedrock depth (feet): avg. >3ft		Bray Kurtz P1 <input type="checkbox"/> Mehlich 3 <input checked="" type="checkbox"/>																													
Type of crops to be grown:																															
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Division of Surface Water
Application for Authorization: Class B Beneficial Use Sites

Applicable isolation distances:

Type of Isolation Distance			
Surface waters of the state	<input checked="" type="checkbox"/>	Sinkhole/UIC class V drainage	<input type="checkbox"/>
Occupied building	<input checked="" type="checkbox"/>	Private potable water source	<input type="checkbox"/>
Medical care facility	<input type="checkbox"/>		

Are any endangered species or endangered species habitats located on the beneficial use site?

☐ Yes ☒ No

If "Yes" is marked, list the types of endangered species or endangered species habitat:

--	--

Have biosolids been beneficially used on the site since July 20, 1993?

☐ Yes ☒ No

If "Yes" is marked, list the biosolids generators and years beneficial use occurred:

Generator	NPDES permit No.	Year of Beneficial Use

The application must also include all of the following.

- ☒ A soil map of the proposed beneficial use site.
- ☒ A frequency flood class map of the proposed beneficial use site.
- ☒ An aerial map of the proposed beneficial use site that clearly identifies the entrance of the beneficial use site from the nearest road and all applicable isolation distances as established in Chapter 3745-40 of the Ohio Administrative Code.
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- ☒ A copy of the most recent soil test results identified in this form.

Division of Surface Water
Application for Authorization: Class B Beneficial Use Sites

Beneficial Use Site Information

Ohio EPA Site I.D. (Ohio EPA Use Only)

Field site I.D.: 250-12																															
Beneficial use site location: Ashley Farm																															
County: Morrow		Township: Peru																													
Latitude: 40° 24' 30.72" N		Longitude: 82° 53' 56.77" W																													
Total acreage proposed for beneficial use: 10.89																															
Type of beneficial use to be performed:		Ground slope percent:																													
Surface application <input checked="" type="checkbox"/>		Less than 15% <input checked="" type="checkbox"/> 15% to 19.9% <input type="checkbox"/>																													
Injection or immediate incorporation <input checked="" type="checkbox"/>		Greater than 20% <input type="checkbox"/>																													
Soil pH (s.u.): 5.3		Soil phosphorus (ppm): 8																													
Bedrock depth (feet): avg. >3ft		Bray Kurtz P1 <input type="checkbox"/> Mehlich 3 <input checked="" type="checkbox"/>																													
Type of crops to be grown:																															
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Pm	Pewamo silty clay loam, 0 to 1 percent slopes	C/D	None																												

Division of Surface Water
Application for Authorization: Class B Beneficial Use Sites

Applicable Isolation distances:

Type of Isolation Distance			
Surface waters of the state	<input checked="" type="checkbox"/>	Sinkhole/UIC class V drainage	<input type="checkbox"/>
Occupied building	<input checked="" type="checkbox"/>	Private potable water source	<input type="checkbox"/>
Medical care facility	<input type="checkbox"/>		

Are any endangered species or endangered species habitats located on the beneficial use site?

☐ Yes ☒ No

If "Yes" is marked, list the types of endangered species or endangered species habitat:

--	--

Have biosolids been beneficially used on the site since July 20, 1993?

☐ Yes ☒ No

If "Yes" is marked, list the biosolids generators and years beneficial use occurred:

Generator	NPDES permit No.	Year of Beneficial Use

The application must also include all of the following.

- ☒ A soil map of the proposed beneficial use site.
- ☒ A frequency flood class map of the proposed beneficial use site.
- ☒ An aerial map of the proposed beneficial use site that clearly identifies the entrance of the beneficial use site from the nearest road and all applicable isolation distances as established in Chapter 3745-40 of the Ohio Administrative Code.
- ☒ A vicinity road map at or near the township level that clearly identifies the proposed beneficial use site with all roads labeled.
- ☒ A copy of the most recent soil test results identified in this form.



■ Farm - Name
■ Ashley Farm (229.88 ac)

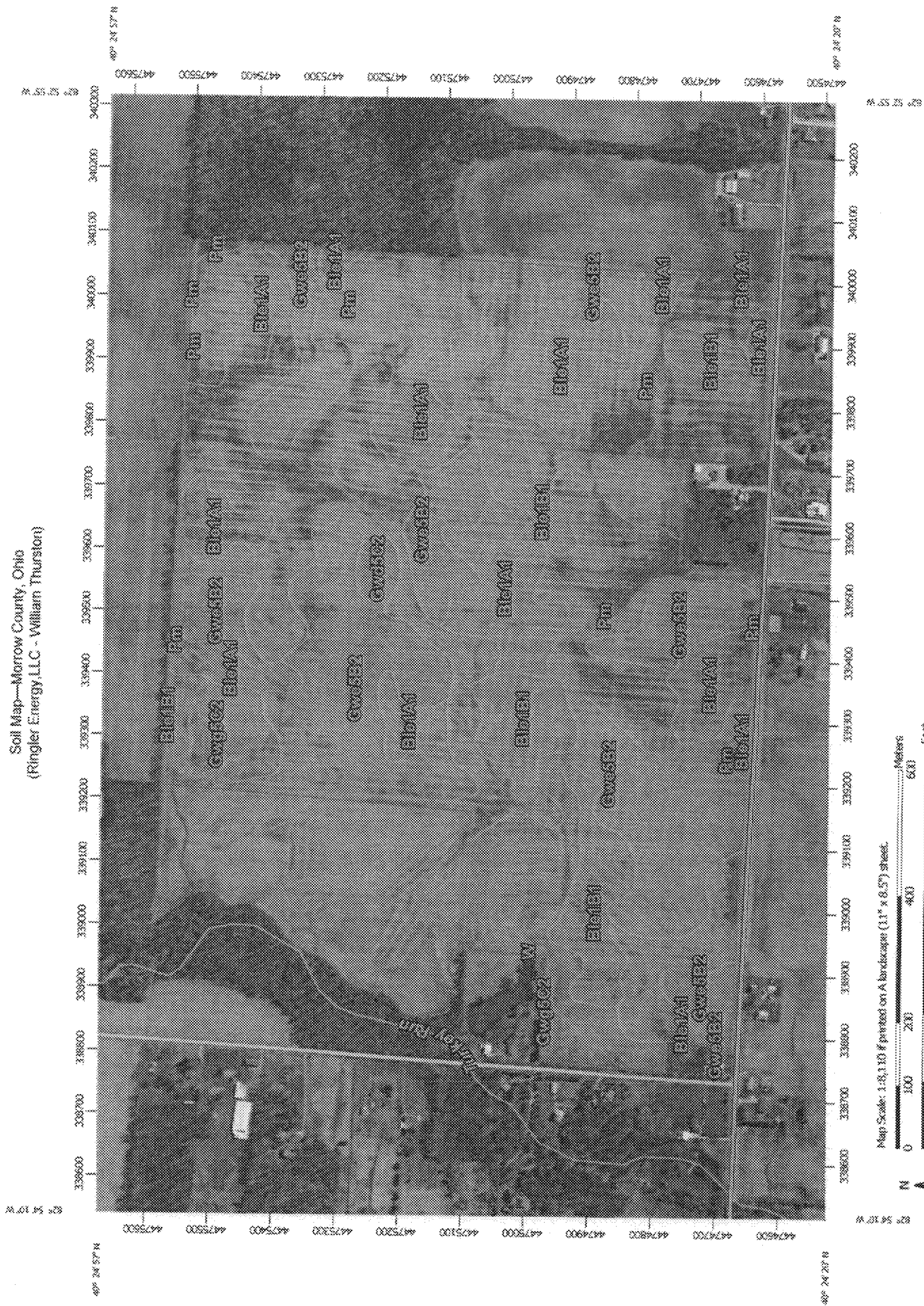
WILLIAM THURSTON
Cty:Morrow,OH Twp:Peru

2/11/2016 11:32:37 AM

Ag Leader Technology SMS Advanced



Soil Map—Morrow County, Ohio
(Ringler Energy, LLC - William Thurston)












































Map Scale: 1:8,110 if printed on A landscape (11" x 8.5") sheet.

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

MAP LEGEND

	Area of Interest (AOI)		Spot Area
	Soils		Stony Spot
	Soil Map Unit Polygons		Very Stony Spot
	Soil Map Unit Lines		Wet Spot
	Soil Map Unit Points		Other
	Special Point Features		Special Line Features
	Blowout		Water Features
	Borrow Pit		Streams and Canals
	Clay Spot		Transportation
	Closed Depression		Rails
	Gravel Pit		Interstate Highways
	Gravelly Spot		US Routes
	Landfill		Major Roads
	Lava Flow		Local Roads
	Marsh or swamp		Background
	Mine or Quarry		Aerial Photography
	Miscellaneous Water		
	Perennial Water		
	Rock Outcrop		
	Saline Spot		
	Sandy Spot		
	Severely Eroded Spot		
	Sinkhole		
	Slide or Slip		
	Sodic Spot		

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Morrow County, Ohio
Survey Area Date: Version 14, Sep 29, 2015

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

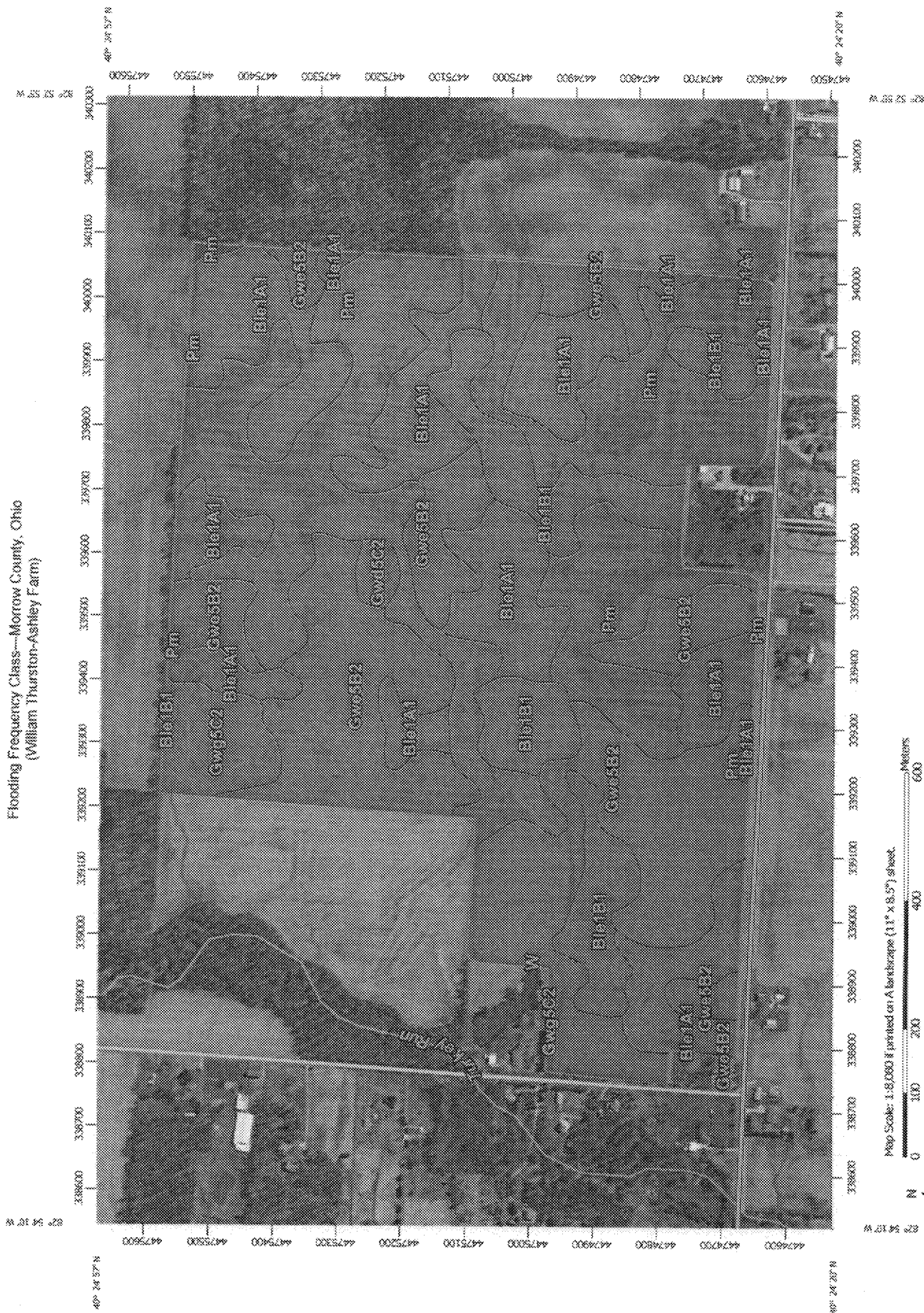
Date(s) aerial images were photographed: Feb 27, 2012—Mar 10, 2012

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Morrow County, Ohio (OH117)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Ble1A1	Blount silt loam, end moraine, 0 to 2 percent slopes	55.6	24.2%
Ble1B1	Blount silt loam, end moraine, 2 to 4 percent slopes	23.2	10.1%
Gwd5C2	Glynwood clay loam, 6 to 12 percent slopes, eroded	1.5	0.7%
Gwe5B2	Glynwood clay loam, end moraine, 2 to 6 percent slopes, eroded	70.5	30.8%
Gwg5C2	Glynwood clay loam, ground moraine, 6 to 12 percent slopes, eroded	6.8	3.0%
Pm	Pewamo silty clay loam, 0 to 1 percent slopes	71.6	31.2%
W	Water	0.0	0.0%
Totals for Area of Interest		229.4	100.0%

Flooding Frequency Class—Morrow County, Ohio (William Thurston-Ashley Farm)



MAP LEGEND

Area of Interest (AOI)	Not rated or not available
Area of Interest (AOI)	
Soils	
Soil Rating Polygons	
None	
Very Rare	
Rare	
Occasional	
Frequent	
Very Frequent	
Not rated or not available	
Soil Rating Lines	
None	
Very Rare	
Rare	
Occasional	
Frequent	
Very Frequent	
Not rated or not available	
Soil Rating Points	
None	
Very Rare	
Rare	
Occasional	
Frequent	
Very Frequent	

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

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Soil Survey Area: Morrow County, Ohio
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Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

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The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Flooding Frequency Class

Flooding Frequency Class— Summary by Map Unit — Morrow County, Ohio (OH117)				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Ble1A1	Blount silt loam, end moraine, 0 to 2 percent slopes	None	55.3	24.2%
Ble1B1	Blount silt loam, end moraine, 2 to 4 percent slopes	None	23.1	10.1%
Gwd5C2	Glynwood clay loam, 6 to 12 percent slopes, eroded	None	1.5	0.7%
Gwe5B2	Glynwood clay loam, end moraine, 2 to 6 percent slopes, eroded	None	70.5	30.8%
Gwg5C2	Glynwood clay loam, ground moraine, 6 to 12 percent slopes, eroded	None	6.8	2.9%
Pm	Pewamo silty clay loam, 0 to 1 percent slopes	None	71.6	31.3%
W	Water	None	0.1	0.0%
Totals for Area of Interest			228.9	100.0%

Description

Flooding is the temporary inundation of an area caused by overflowing streams, by runoff from adjacent slopes, or by tides. Water standing for short periods after rainfall or snowmelt is not considered flooding, and water standing in swamps and marshes is considered ponding rather than flooding.

Frequency is expressed as none, very rare, rare, occasional, frequent, and very frequent.

"None" means that flooding is not probable. The chance of flooding is nearly 0 percent in any year. Flooding occurs less than once in 500 years.

"Very rare" means that flooding is very unlikely but possible under extremely unusual weather conditions. The chance of flooding is less than 1 percent in any year.

"Rare" means that flooding is unlikely but possible under unusual weather conditions. The chance of flooding is 1 to 5 percent in any year.

"Occasional" means that flooding occurs infrequently under normal weather conditions. The chance of flooding is 5 to 50 percent in any year.

"Frequent" means that flooding is likely to occur often under normal weather conditions. The chance of flooding is more than 50 percent in any year but is less than 50 percent in all months in any year.

"Very frequent" means that flooding is likely to occur very often under normal weather conditions. The chance of flooding is more than 50 percent in all months of any year.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: More Frequent

Beginning Month: January

Ending Month: December

THURSTON
229.88 ac

County Road 166

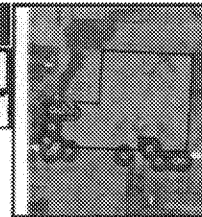
Setback Distance

---	Residence
---	POND
100'	Injection Application
200'	Pond Injection Application
300'	Surface Application
33'	Waters of the State

WILLIAM THURSTON
City: Morrow, OH Twp: Peru



Query 1				
Layer 1 - Setbacks 2016 THURSTO				
Main Layer				
Total area	12.13 ac			
Length	17,366 ft			
Count	4			
Description	Value	Area	Length	Count
Setback Names	POND Injection	2.562 ac	1,862.6 ft	1
	Waters of the State	3.039 ac	8,257.6 ft	1
	Injection	0.014 ac	195.22 ft	1
	Surface	6.512 ac	7,050.5 ft	1
Setback Distance	200'	2.562 ac	1,862.6 ft	1
	33'	3.039 ac	8,257.6 ft	1
	100'	0.014 ac	195.22 ft	1
	300'	6.512 ac	7,050.5 ft	1
Layer 2 - Ashley Farm William Thurston				
Main Layer				
Total area	229.88 ac			
Length	15,028 ft			
Count	1			
Description	Value	Area	Length	Count
Farm - Name	Ashley Farm	229.88 ac	15,028 ft	1
Field - Name	THURSTON	229.88 ac	15,028 ft	1



2015 - 507620005

THURSTON

230 A

2016 - 022A

lb/A

BROOKSIDE LABORATORIES, INC.

58251-2

SOIL AUDIT AND INVENTORY REPORT

Name Ringer EnergyCity CarlingtonState OHIndependent Consultant Brookside Consultants of Ohio, Inc.Date 01/25/2016

Sample Location			ASHLEY	THURSTON	THURSTON	THURSTON	THURSTON	THURSTON
Sample Identification				250-1	250-2	250-3	250-4	250-5
Lab Number				0058-1	0059-1	0060-1	0061-1	0062-1
Total Exchange Capacity (ME/100 g)				24.08	25.82	23.85	16.09	23.20
pH (H ₂ O 1:1)				5.2	5.7	5.0	5.4	4.6
Organic Matter (humus) %				2.84	3.67	2.98	1.93	2.41
Estimated Nitrogen Release lb/A				77	87	80	59	68
ANIONS	SOLUBLE SULFUR* ppm			13	9	9	8	13
	MEHLICH III	lb/A PasP ₂ O ₅		60	78	96	37	73
		ppm of P		13	17	21	8	16
	BRAY II	lb/A PasP ₂ O ₅		69	142	119	32	96
		ppm of P		15	31	26	7	21
EXCHANGEABLE CATIONS	CALCIUM*	lb/A		3908	5690	3558	2996	2842
		ppm		1954	2845	1779	1498	1421
	MAGNESIUM*	lb/A		664	794	482	438	360
		ppm		332	397	241	219	180
	POTASSIUM*	lb/A		258	344	274	248	234
		ppm		129	172	137	124	117
	SODIUM*	lb/A		62	46	44	40	44
		ppm		31	23	22	20	22
BASE SATURATION PERCENT								
Calcium %				40.57	55.09	37.30	46.55	30.63
Magnesium %				11.49	12.81	8.42	11.34	6.47
Potassium %				1.37	1.71	1.47	1.98	1.29
Sodium %				0.56	0.39	0.40	0.54	0.41
Other Bases %				7.00	6.00	7.40	6.60	8.20
Hydrogen %				39.00	24.00	45.00	33.00	53.00
EXTRACTABLE MINORS								
Boron* (ppm)				0.54	0.63	0.59	0.40	0.47
Iron* (ppm)				240	315	300	185	262
Manganese* (ppm)				39	17	21	20	14
Copper* (ppm)				2.90	5.66	3.58	2.18	2.87
Zinc* (ppm)				2.94	4.92	2.54	1.57	1.13
Aluminum* (ppm)				1054	961	1020	819	1268
OTHER TESTS	Soluble Salts (mmhos/cm)							
	Chlorides (ppm)							

* Mehlich III Extractable

D/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

58251-2

Name Ringer Energy City Cardington State OH
 Independent Consultant Brookside Consultants of Ohio, Inc. Date 01/25/2016

Sample Location <u>ASHLEY</u>			THURSTON	THURSTON	THURSTON	THURSTON	THURSTON
Sample Identification			250-6	250-7	250-8	250-9	250-10
Lab Number			0063-1	0064-1	0065-1	0066-1	0067-1
Total Exchange Capacity (ME/100 g)			26.76	23.69	20.44	14.57	16.29
pH (H ₂ O 1:1)			4.7	5.0	4.8	4.6	5.9
Organic Matter (humus) %			2.71	2.48	2.26	1.79	2.05
Estimated Nitrogen Release lb/A			74	70	65	56	61
ANIONS	SOLUBLE SULFUR* ppm		12	13	15	13	9
	MEHLICH III	lb/A Pas P ₂ O ₅	78	87	60	32	27
		ppm of P	17	19	13	7	6
	BRAY II	lb/A Pas P ₂ O ₅	137	60	60	23	23
		ppm of P	30	13	13	5	5
EXCHANGEABLE CATIONS	CALCIUM*		3466	3578	2728	1696	3652
		lb/A ppm	1733	1789	1364	848	1826
	MAGNESIUM*		456	476	398	266	714
		lb/A ppm	228	238	199	133	357
	POTASSIUM*		250	200	204	172	178
		lb/A ppm	125	100	102	86	89
	SODIUM*		40	42	42	38	50
		lb/A ppm	20	21	21	19	25
BASE SATURATION PERCENT							
Calcium %			32.38	37.76	33.37	29.10	56.05
Magnesium %			7.10	8.37	8.11	7.61	18.26
Potassium %			1.20	1.08	1.28	1.51	1.40
Sodium %			0.32	0.39	0.45	0.57	0.67
Other Bases %			8.00	7.40	7.80	8.20	5.60
Hydrogen %			51.00	45.00	49.00	53.00	18.00
EXTRACTABLE MINORS							
Boron* (ppm)			0.59	0.46	0.42	0.28	0.30
Iron* (ppm)			294	186	198	144	129
Manganese* (ppm)			11	38	29	61	41
Copper* (ppm)			3.24	2.24	2.14	1.32	1.70
Zinc* (ppm)			1.55	1.83	1.31	1.18	0.98
Aluminum* (ppm)			1245	1013	1076	1042	822
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						

* Mehlich III Extractable

lb/A

BROOKSIDE LABORATORIES, INC.

SOIL AUDIT AND INVENTORY REPORT

58251-2

Name Ringier Energy City Camlington State OH
 Independent Consultant Brookside Consultants of Ohio, Inc. Date 01/25/2016

Sample Location <u>ASHLEY</u>		THURSTON	THURSTON			
Sample Identification		250-11	250-12			
Lab Number		0068-1	0069-1			
Total Exchange Capacity (ME/100 g)		18.74	17.03			
pH (H ₂ O 1:1)		6.5	5.3			
Organic Matter (humus) %		2.67	2.29			
Estimated Nitrogen Release lb/A		73	66			
ANIONS	SOLUBLE SULFUR*	ppm				
	MEHLICH III	lb/A P as P ₂ O ₅	8	10		
		ppm of P	55	37		
	BRAY II	lb/A P as P ₂ O ₅	12	8		
		ppm of P	69	23		
EXCHANGEABLE CATIONS	OLSEN	lb/A P as P ₂ O ₅	15	5		
		ppm of P				
	CALCIUM*	lb/A	4944	2844		
		ppm	2472	1422		
	MAGNESIUM*	lb/A	874	550		
OTHER TESTS		ppm	437	275		
	POTASSIUM*	lb/A	232	176		
		ppm	116	88		
	SODIUM*	lb/A	52	52		
		ppm	26	26		
BASE SATURATION PERCENT						
Calcium %			65.96	41.75		
Magnesium %			19.43	13.46		
Potassium %			1.59	1.32		
Sodium %			0.60	0.66		
Other Bases %			4.90	6.80		
Hydrogen %			7.50	36.00		
EXTRACTABLE MINORS						
Boron* (ppm)			0.55	0.43		
Iron* (ppm)			172	233		
Manganese* (ppm)			26	36		
Copper* (ppm)			3.04	2.05		
Zinc* (ppm)			2.35	1.76		
Aluminum* (ppm)			798	933		
Soluble Salts (mmhos/cm)						
Chlorides (ppm)						

* Mehlich III Extractable